

Common Sense Initiative, Automobile Manufacturing Sector

***U.S. Automobile Assembly Plants and Their Communities:
Environmental Economic, and Demographic Profile***

**Part III: Automobile/Light Duty Truck Assembly
Plant-Community Profiles**

**9. General Motors
Fort Wayne, IN**

December 1997

Contents and Guidelines for Use

Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.

Contents:

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General Guidelines for Use

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

Notes on Comparisons Across Facilities

1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant's immediate community, depending on the specific location of a plant within the reporting area.

Plant-Community Profile:
General Motors
Fort Wayne IN

12/2/97

| | | | | | | | | |
|------------|---|---|------------|-------------|---|-----------------|--------------|----------------------------|
| LOCATION | Address | 12200 Lafayette Ctr. Rd., Fort Wyane IN 46783 | | DESCRIPTION | Produced Chevrolet C/K pickup and GMC Sierra in 1994. | | | |
| | Lat/Long: | latitude (degrees N) | 40 58' 6" | | ID NUMBERS | RCRA ID | IND115304594 | |
| | | longitude (degrees W) | 85 17' 56" | | | | | |
| | County: | Allen | MSA: | | | | | Fort Wayne IN |
| | Other counties within 3 miles of plant: | | | | | | | Whitley, Huntington, Wells |
| OPERATIONS | | Production | Employment | | | | | AIRS ID |
| | | | | | NPDES ID | IN0055689 | | |
| | | | | | TRI | 46783GMCTR12200 | | |
| | Calendar Year: 1991 | 173,908 | | | | | | |
| | 1992 | 185,938 | | | | | | |
| | 1993 | 229,654 | | | | | | |
| | 1994 | 228,728 | 2,830 | | | | | |

PLANT ENVIRONMENTAL PROFILE

RCRA BIENNIAL REPORT

| <i>Waste Code(s)</i> | <i>Wastewater?</i> | <i>Physical Form</i> | <i>Source</i> | <i>Mgd. On/Off-Site</i> | <i>Management Method</i> | <i>Quantity Generated (tons)</i> | <i>Quantity Shipped (tons)</i> | <i>Quantity Mgd. On-Site (tons)</i> |
|---------------------------------------|--------------------|----------------------|-------------------------|-------------------------|--------------------------|--------------------------------------|------------------------------------|---|
| 1991 | | | | | | | | |
| D001 (ignitable) | N | B210 org. liquids | A37 process liq. remov. | Off | M061 fuel blending | 3.0 | 3.0 | 0.0 |
| D001 (ignitable) | N | B211 org. liquids | A19 other clean/degr. | Off | M061 fuel blending | 5.0 | 5.0 | 0.0 |
| D001(ignit) F003, F005 (solvents) | N | B201 org. liquids | A37 process liq. remov. | Off | M061 fuel blending | 3.0 | 3.0 | 0.0 |
| D001(ignit) F003, F005 (solvents) | N | B203 org. liquids | A21 painting | Off | M021 solvents recov. | 449.5 | 449.5 | 0.0 |
| D001(ignit) F003, F005 (solvents) | N | B203 org. liquids | A19 other clean/degr. | Off | M061 fuel blending | 4.0 | 4.0 | 0.0 |
| D001(ignit) F003, F005 (solvents) | N | B211 org. liquids | A21 painting | Off | M061 fuel blending | 3.0 | 3.0 | 0.0 |
| D001(ignit) F005 (solvents) | N | B203 org. liquids | A19 other clean/degr. | Off | M061 fuel blending | 0.1 | 0.1 | 0.0 |
| D008 (lead) | Y | B113 inorg. liquids | A22 electroplating | On | M077 aqueous treat. | 38,558.6 | 0.0 | 38,558.6 |
| D008 (lead) | Y | B114 inorg. liquids | A75 wastewater trt | On | M077 aqueous treat. | 0.8 | 0.0 | 0.8 |
| D008 (lead) | N | B319 inorg. solids | A22 electroplating | Off | M132 landfill | 142.3 | 142.3 | 0.0 |
| D008 (lead) | N | B519 inorg. sludges | A09 clean out equip | Off | M132 landfill | 1.3 | 1.3 | 0.0 |
| D018 (bezene) D039 (tetrachlethylene) | N | B207 org. liquids | A59 1x/intermittent | Off | M032 oth. recov. | 8.3 | 8.3 | 0.0 |
| D018 (bezene) D039 (tetrachlethylene) | N | B207 org. liquids | A59 1x/intermittent | Off | M061 fuel blending | 0.4 | 0.4 | 0.0 |
| F003, F005 (nonhalog. solvents) | N | B205 org. liquids | A21 painting | Off | M032 oth. recov. | 81.5 | 81.5 | 0.0 |
| F003, F005 (solvents) D008 (lead) | N | B319 inorg. solids | A09 clean out equip | Off | M043 incineration | 0.1 | 0.1 | 0.0 |
| TOTAL - 1991 | | | | | | 39,260.9 | 701.5 | 38,559.4 |

Plant-Community Profile:
General Motors
Fort Wayne IN

1/22/98

PLANT ENVIRONMENTAL PROFILE (continued)

RCRA Biennial Report (continued)

| <i>Waste Code(s)</i> | <i>Wastewater?</i> | <i>Physical Form</i> | <i>Source</i> | <i>Mgd. On/Off-Site</i> | <i>Management Method</i> | <i>Quantity Generated (tons)</i> | <i>Quantity Shipped (tons)</i> | <i>Quantity Mgd. On-Site (tons)</i> |
|-------------------------------------|--------------------|----------------------|---------------------|-------------------------|--------------------------|--------------------------------------|------------------------------------|---|
| 1993 | | | | | | | | |
| D001 (ignit.) F003, F005 (solvents) | N | B203 org. liquid | A21 painting | Off | M022 solvents recov. | 619.3 | 619.3 | 0.0 |
| D008 (lead) | N | B319 inorg. solids | A22 electroplating | Off | M042 incineration | 5.8 | 5.8 | 0.0 |
| F003 (non-halog solvents) | N | B319 inorg. solids | A09 clean out equip | Off | M053 energy recov. | 99.3 | 99.3 | 0.0 |
| F003, F005 (nonhalog solvents) | N | B211org. liquid | A21 painting | Off | M061 fuel blending | 11.0 | 11.0 | 0.0 |
| TOTAL - 1993 | | | | | | 735.4 | 735.4 | 0.0 |

TOXICS RELEASE INVENTORY

| <i>Total lbs of TRI chemicals:</i> | <i>Air-Fugitive Emissions</i> | <i>Air-Stack Emissions</i> | <i>Total Releases</i> | <i>Discharge to POTW</i> | <i>Off-Site Energy Recovery</i> | <i>Off-Site Recycling</i> | <i>Off-Site Treatment</i> | <i>Off-Site Disposal</i> | <i>Total Transfers</i> |
|------------------------------------|-----------------------------------|--------------------------------|---------------------------|------------------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------------|----------------------------|
| 1991 | 435,941 | 1,172,040 | 1,607,981 | 40,090 | 0 | 813,900 | 17,474 | 179,126 | 1,050,590 |
| 1992 | 467,087 | 973,240 | 1,440,327 | 19,060 | 25,902 | 1,066,250 | 41,700 | 81,072 | 1,233,984 |
| 1993 | 255,551 | 1,228,489 | 1,484,040 | 14,750 | 23,650 | 706,027 | 20,900 | 254,631 | 1,019,958 |
| 1994 | 562,569 | 945,396 | 1,507,965 | 20,368 | 49,750 | 882,604 | 48,850 | 63,703 | 1,065,275 |
| Lbs. per vehicle produced: | | | | | | | | | |
| 1991 | 2.51 | 6.74 | 9.25 | 0.23 | 0.00 | 4.68 | 0.10 | 1.03 | 6.04 |
| 1992 | 2.51 | 5.23 | 7.75 | 0.10 | 0.14 | 5.73 | 0.22 | 0.44 | 6.64 |
| 1993 | 1.11 | 5.35 | 6.46 | 0.06 | 0.10 | 3.07 | 0.09 | 1.11 | 4.44 |
| 1994 | 2.46 | 4.13 | 6.59 | 0.09 | 0.22 | 3.86 | 0.21 | 0.28 | 4.66 |

**Plant-Community Profile:
General Motors
Fort Wayne IN**

12/2/97

PLANT ENVIRONMENTAL PROFILE (continued)

1994 TRI Emissions/Releases by Chemical (lbs.)

| <i>Chemical Name</i> | <i>Air-Fugitive Emissions</i> | <i>Air-Stack Emissions</i> | <i>Total Releases</i> | <i>Discharge to POTW</i> | <i>Off-Site Energy Recovery</i> | <i>Off-Site Recycling</i> | <i>Off-Site Treatment</i> | <i>Off-Site Disposal</i> | <i>Total Transfers</i> |
|------------------------------|-----------------------------------|--------------------------------|---------------------------|------------------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------------|----------------------------|
| METHANOL | 67,000 | 42,000 | 109,000 | 0 | 0 | 2,300 | 0 | 2,300 | 4,600 |
| N-BUTYL ALCOHOL | 76,000 | 71,000 | 147,000 | 0 | 250 | 19,000 | 750 | 2,600 | 22,600 |
| BENZENE | 601 | 606 | 1,207 | 0 | 250 | 0 | 0 | 0 | 250 |
| METHYL ETHYL KETONE | 2,300 | 24,000 | 26,300 | 0 | 250 | 19,000 | 750 | 750 | 20,750 |
| ETHYLBENZENE | 3,100 | 23,000 | 26,100 | 0 | 750 | 90,000 | 4,500 | 4,500 | 99,750 |
| ETHYLENE GLYCOL | 0 | 0 | 0 | 390 | 42,000 | 7,500 | 0 | 30 | 49,920 |
| METHYL ISOBUTYL KETONE | 5,800 | 44,000 | 49,800 | 0 | 1,800 | 170,000 | 8,400 | 5,800 | 186,000 |
| TOLUENE | 36,000 | 100,000 | 136,000 | 0 | 250 | 34,000 | 1,700 | 250 | 36,200 |
| XYLENE (MIXED ISOMERS) | 360,000 | 420,000 | 780,000 | 0 | 4,200 | 400,000 | 20,000 | 1,200 | 425,400 |
| PHOSPHORUS (YELLOW OR WHITE) | 0 | 0 | 0 | 0 | 0 | 62 | 0 | 250 | 312 |
| CHLORINE | 730 | 500 | 1,230 | 0 | 0 | 62 | 0 | 0 | 62 |
| BARIUM COMPOUNDS | 0 | 290 | 290 | 550 | 0 | 3,300 | 0 | 4,911 | 8,761 |
| CHROMIUM COMPOUNDS | 0 | 0 | 0 | 88 | 0 | 0 | 0 | 1,350 | 1,438 |
| GLYCOL ETHERS | 11,000 | 220,000 | 231,000 | 18,000 | 0 | 0 | 11,000 | 37,250 | 66,250 |
| LEAD COMPOUNDS | 0 | 0 | 0 | 250 | 0 | 137,360 | 1,500 | 2,400 | 141,510 |
| MANGANESE COMPOUNDS | 38 | 0 | 38 | 250 | 0 | 0 | 0 | 110 | 360 |
| NICKEL COMPOUNDS | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 |
| ZINC COMPOUNDS | 0 | 0 | 0 | 590 | 0 | 20 | 250 | 2 | 862 |
| TOTAL | 562,569 | 945,396 | 1,507,965 | 20,368 | 49,750 | 882,604 | 48,850 | 63,703 | 1,065,275 |

**VOC/NOx Emissions:
(lbs/year)**

| | <i>VOCs</i> | <i>NOx</i> |
|------|-------------|------------|
| 1990 | NA | NA |
| 1991 | NA | NA |
| 1992 | NA | NA |
| 1993 | 1,537,200 | 203,200 |
| 1994 | 2,957,467 | 219,386 |

Plant-Community Profile:
General Motors
Fort Wayne IN

12/2/97

COMMUNITY ENVIRONMENTAL PROFILE

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

| <i>Facility (w. map #)</i> | <i>Air-Fugitive Emissions</i> | <i>Air-Stack Emissions</i> | <i>Total Releases</i> | <i>Discharge to POTW</i> | <i>Off-Site Transfers</i> | <i>Total Transfers</i> |
|----------------------------|-----------------------------------|--------------------------------|---------------------------|------------------------------|-------------------------------|----------------------------|
|----------------------------|-----------------------------------|--------------------------------|---------------------------|------------------------------|-------------------------------|----------------------------|

{None}

**Air Quality Attainment Status
(as of 1994)***

ozone - attainment or unclassifiable
carbon monoxide - attainment or unclassifiable
particulates - unclassifiable
lead - unclassifiable
NO2 - cannot be classified or better than national standards
SO2 - attainment

* no changes in designations occurred between 1994 and 1996

**Plant-Community Profile:
General Motors
Fort Wayne IN**

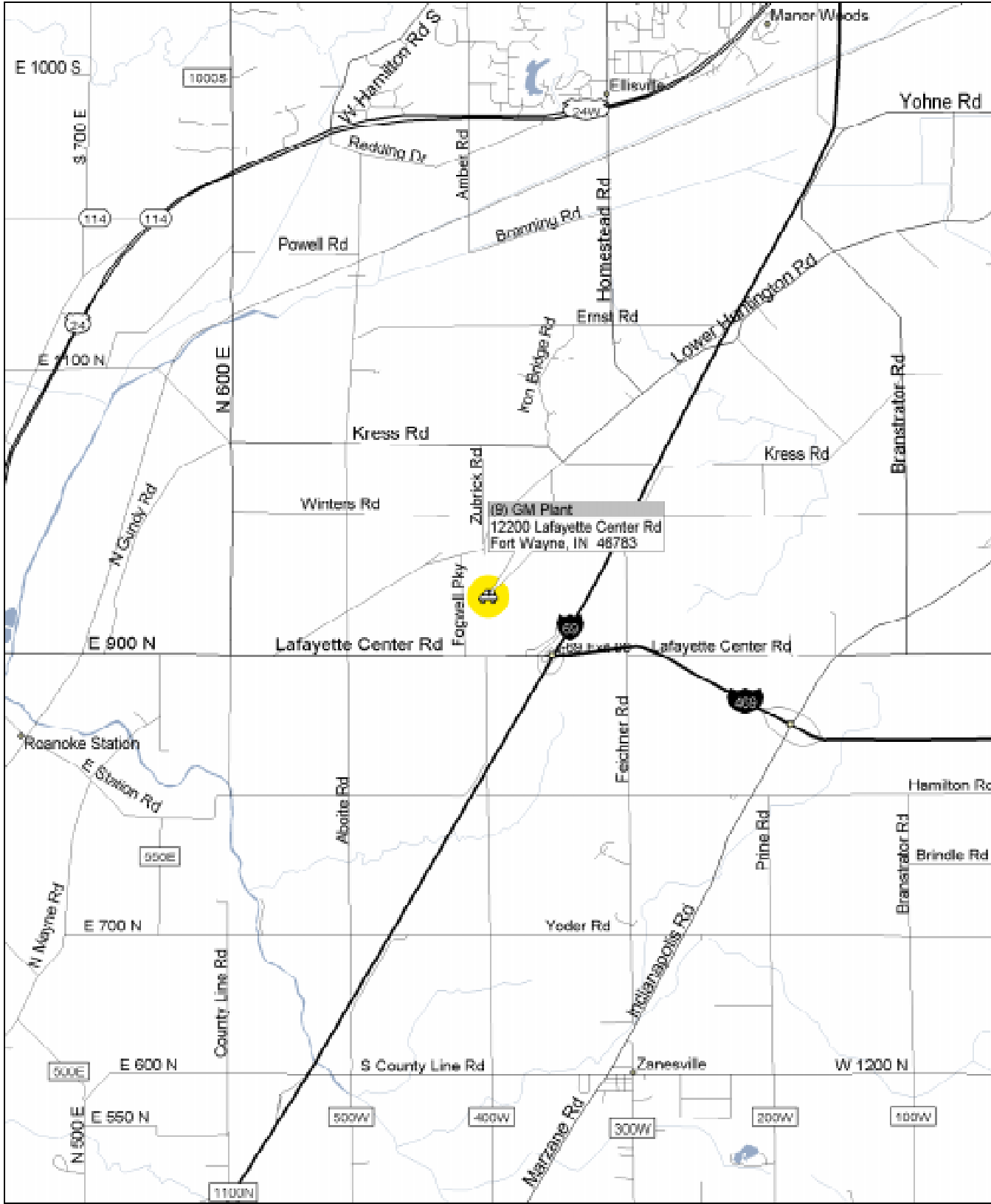
12/19/97

COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

| | <i>Census Block</i> | <i>0-1 Mile</i> | <i>0-3 Miles</i> | <i>1-3 Miles</i> | <i>3-5 Miles</i> | <i>County</i> | <i>State</i> | <i>U.S.</i> |
|--|--------------------------------|------------------------|-------------------------|-------------------------|-------------------------|----------------------|---------------------|--------------------|
| Total Population (1994) | NA | NA | NA | NA | NA | 307,690 | 5,752,151 | 260,340,990 |
| Total Population (1990) | 679 | 208 | 4,773 | 3,802 | 8,479 | 300,836 | 5,544,159 | 248,709,873 |
| % Change 1990-1994 | NA | NA | NA | NA | NA | 2 | 4 | 5 |
| Total Area (sq. mi.) (1990) | 11.0 | 3.1 | 28.2 | 25.1 | 50.2 | 657.3 | 35,870.1 | 3,536,278.1 |
| Population/sq. mi. (land area) (1990) | 62 | 67 | 170 | 151 | 169 | 458 | 155 | 70 |
| Median Household Income (1994) | | | | | | NA | 27,858 | 32,264 |
| Median Household Income (1989) | | | | | | 31,835 | 28,797 | 30,056 |
| % Change 1979-1989 (constant \$) | | | | | | -1 | -2 | 7 |
| % Change 1989-1994 (constant \$) | | | | | | NA | -3 | 7 |
| Per Capita Personal Income (1993) | | | | | | 21,498 | 19,213 | 20,800 |
| Per Capita Personal Income (1989) | | | | | | 18,312 | 15,972 | 17,690 |
| % Change 1989-1993 (current \$) | | | | | | 17 | 20 | 18 |
| Minority Percentage (1990) | 0 | 0 | 0 | 0 | 0 | 12 | 9 | 20 |
| Pct. of Households Below Poverty Level (1989) | 2 | 2 | 10 | 10 | 8 | 10 | 17 | 20 |
| Pct. Not Completing High School (1990) | 17 | 16 | 15 | 15 | 11 | 19 | 24 | 25 |
| Total Employment (1994) (civilian nonfarm) | | | | | | 172,822 | 3,057,000 | 131,056,000 |
| Unemployment Rate (1994) | | | | | | 5 | 4 | 6 |
| Manufacturing Employment (1993) | | | | | | 38,085 | 636,495 | 18,183,381 |
| Mfgr. as % Total Employment (1993) | | | | | | 24 | 28 | 19 |
| Manufacturing Employment (1992) | | | | | | NA | 54,000 | 18,253,000 |
| Production Workers (1992) | | | | | | NA | 39,000 | 11,654,000 |
| % Change in Mfgr. Employment 1987-1992 | | | | | | NA | 3 | -4 |
| Assembly Plant as % Total Mfgr. Workers | | | | | | 7 | | |

Data sources used were not always complete or current.
Attempts have been made to verify data, but errors may still exist.

Fort Wayne, IN, GM Plant



Microsoft, Microsoft logo

Streets98

GENERAL MOTORS CORP
12200 LAFAYETTE CTR RD
ROANOKE IN
Tri Number: 46783GMCTR12200

| Map # | SIC | Name | Address | City | State |
|-------|-----|---|----------------------------|---------|-------|
| 0 | | 3711 NORTH AMERICAN TRUCK PLATFORMS FORT WAYNE ASSEMBLY | 12200 LAFAYETTE CENTER RD. | ROANOKE | IN |

AREA WIDE 1994 TRI EMISSION PROFILE

GENERAL MOTORS CORP
ALLEN COUNTY, Indiana

Latitude: 40 58 6
Longitude: 85 17 56

Map Key:
Auto
Plant
Truck



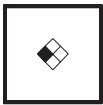
Air
Release



Land
Release

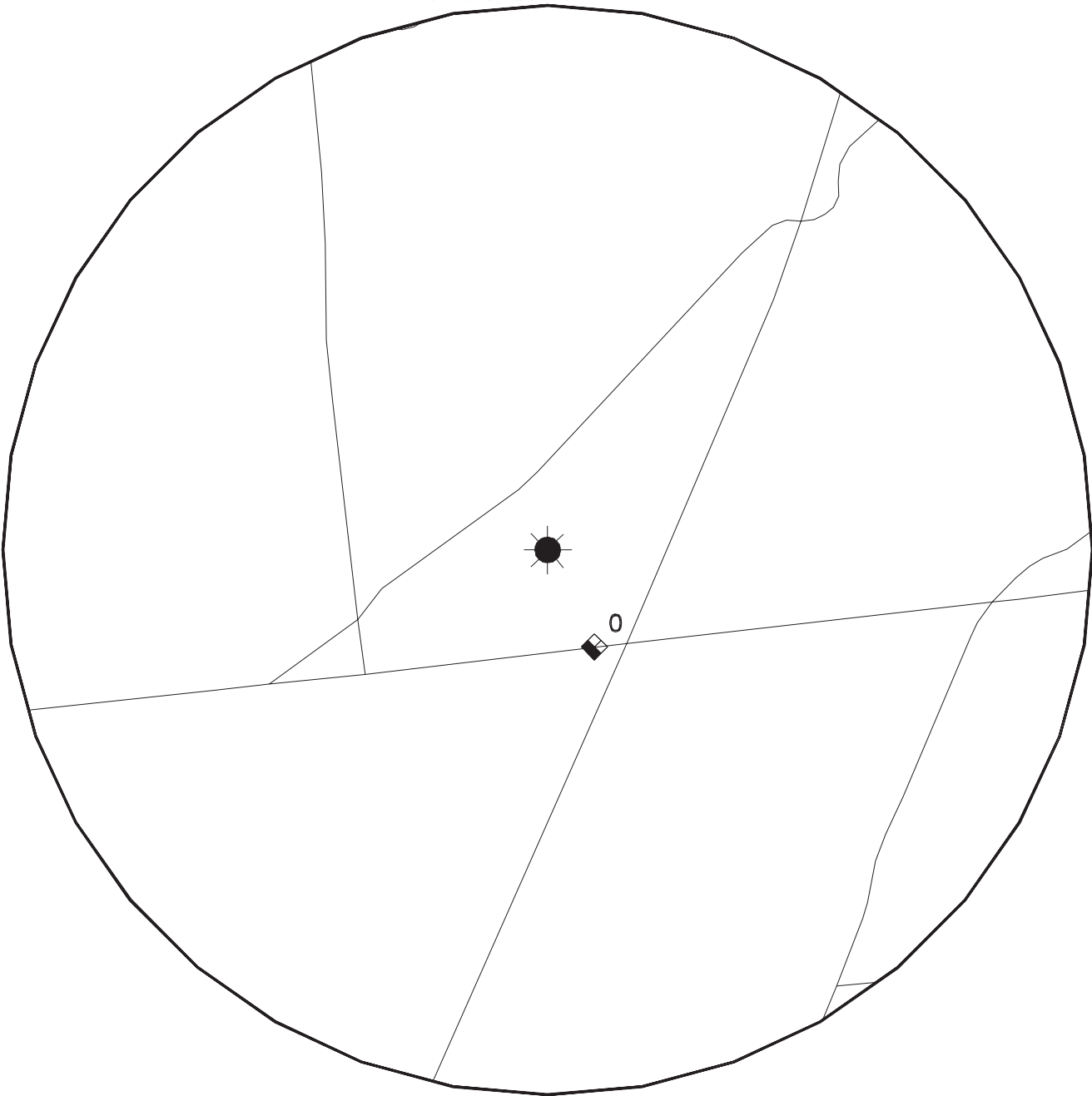


Water
Release



Transfer
location
to offsite

3 Mile Buffer



Number without a Symbol denotes no reported emissions over 0.5 pounds per year

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
GENERAL MOTORS CORP TRI NO: 46783GMCTR12200

| Chemical Name | Air Fugitive (Non-Point Source) Emissions | Air Stack (Point Source) Emissions | Discharge to Surface Water | On-Site Land Disposal | TOTAL RELEASES | Discharge to POTW | Transfer | TOTAL TRANSFERS |
|--|--|---|-------------------------------------|-----------------------------|-------------------|----------------------|--------------|--------------------|
| NORTH AMERICAN TRUCK PLATFORMS FORT WAYNE ASSEMBLY SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES MAP LOCATION NO: 0 | | | | | | | | |
| 12200 LAFAYETTE CENTER RD. SIC CODE: 3711 | | | | | | | | |
| ROANOKE IN 46783 | | | | | | | | |
| METHANOL | 67,000 | 42,000 | 0 | 0 | 109,000 | 0 | 4,600 | 4,600 |
| N-BUTYL ALCOHOL | 76,000 | 71,000 | 0 | 0 | 147,000 | 0 | 22,600 | 22,600 |
| BENZENE | 601 | 606 | 0 | 0 | 1,207 | 0 | 250 | 250 |
| METHYL ETHYL KETONE | 2,300 | 24,000 | 0 | 0 | 26,300 | 0 | 20,750 | 20,750 |
| ETHYLBENZENE | 3,100 | 23,000 | 0 | 0 | 26,100 | 0 | 95,750 | 99,750 |
| ETHYLENE GLYCOL | 0 | 0 | 0 | 0 | 0 | 390 | 49,530 | 49,920 |
| METHYL ISOBUTYL KETONE | 5,800 | 44,000 | 0 | 0 | 49,800 | 0 | 186,000 | 186,000 |
| TOLUENE | 36,000 | 100,000 | 0 | 0 | 136,000 | 0 | 36,200 | 36,200 |
| XYLENE (MIXED ISOMERS) | 360,000 | 420,000 | 0 | 0 | 780,000 | 0 | 425,400 | 425,400 |
| PHOSPHORUS (YELLOW OR WHITE) | 0 | 0 | 0 | 0 | 0 | 0 | 312 | 312 |
| CHLORINE | 730 | 500 | 0 | 0 | 1,230 | 0 | 62 | 62 |
| BARIUM COMPOUNDS | 0 | 290 | 0 | 0 | 290 | 550 | 8,211 | 8,761 |
| CHROMIUM COMPOUNDS | 0 | 0 | 0 | 0 | 0 | 88 | 1,350 | 1,438 |
| GLYCOL ETHERS | 11,000 | 220,000 | 0 | 0 | 231,000 | 18,000 | 48,250 | 66,250 |
| LEAD COMPOUNDS | 0 | 0 | 0 | 0 | 0 | 250 | 141,260 | 141,510 |
| MANGANESE COMPOUNDS | 38 | 0 | 0 | 0 | 38 | 250 | 110 | 360 |
| NICKEL COMPOUNDS | 0 | 0 | 0 | 0 | 0 | 250 | 0 | 250 |
| ZINC COMPOUNDS | 0 | 0 | 0 | 0 | 0 | 590 | 272 | 862 |
| SUBTOTALS | 562,569 | 945,396 | 0 | 0 | 1,507,965 | 20,368 | 1, 1,065,275 | |

General Motors Corporation
Fort Wayne Allen County, Indiana

TRI # : 4 6 7 8 3 GMCT R1 2 2 0 0

Latitude: 40 58 6 N
Longitude: 85 17 56 W

MAP KEY:

- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

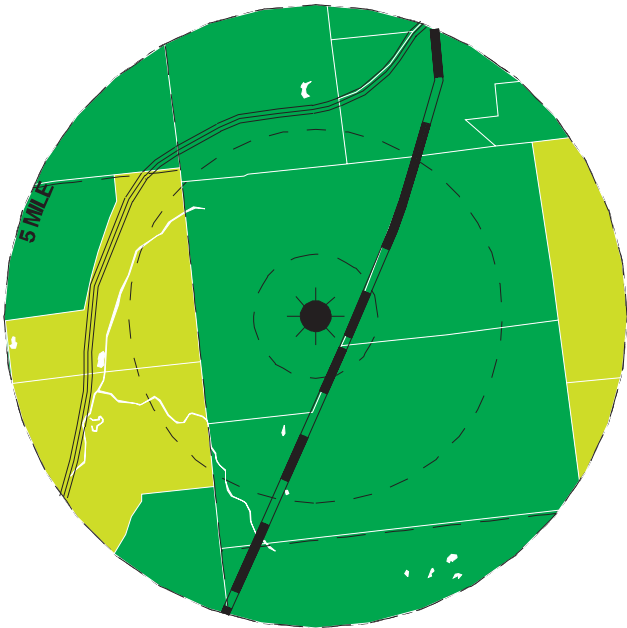
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

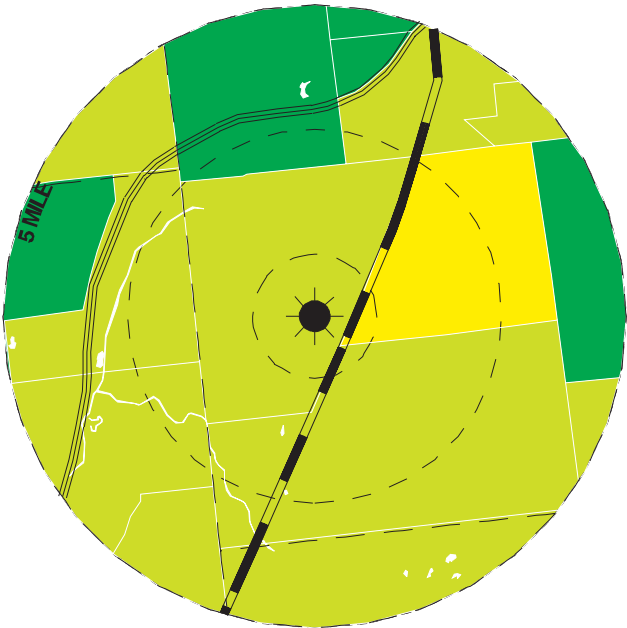
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



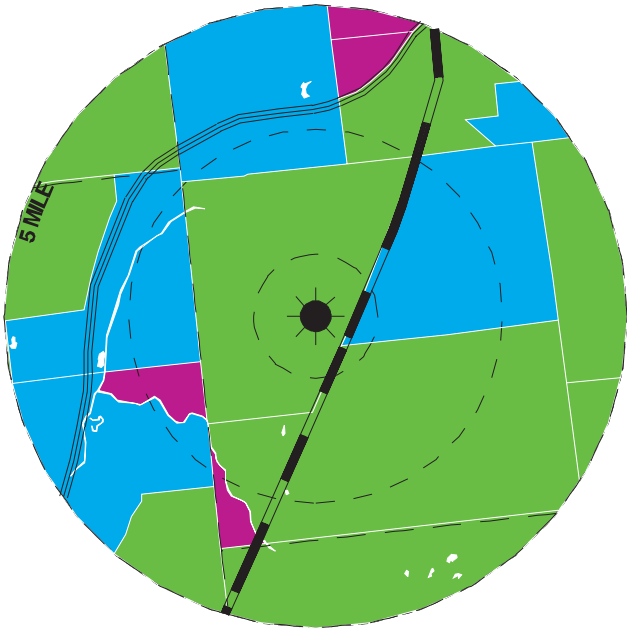
Percentage of Total Population Below Poverty Level



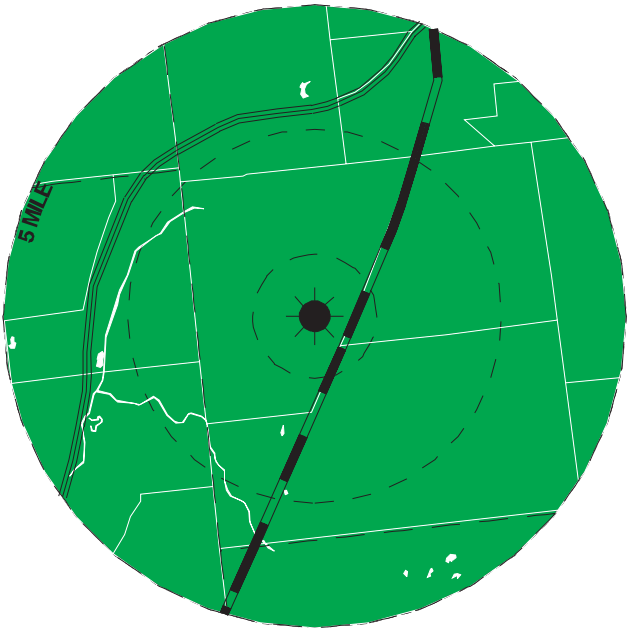
Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population



General Motors Corporation
Fort Wayne Allen County, Indiana

TRI # : 4 6 7 8 3 GMCT R1 2 2 0 0
Latitude: 40 58 6 N
Longitude: 85 17 56 W

MAP KEY:

- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

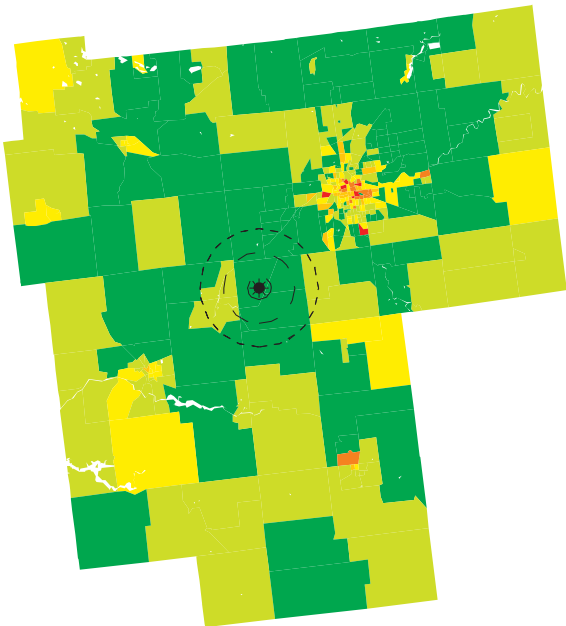
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

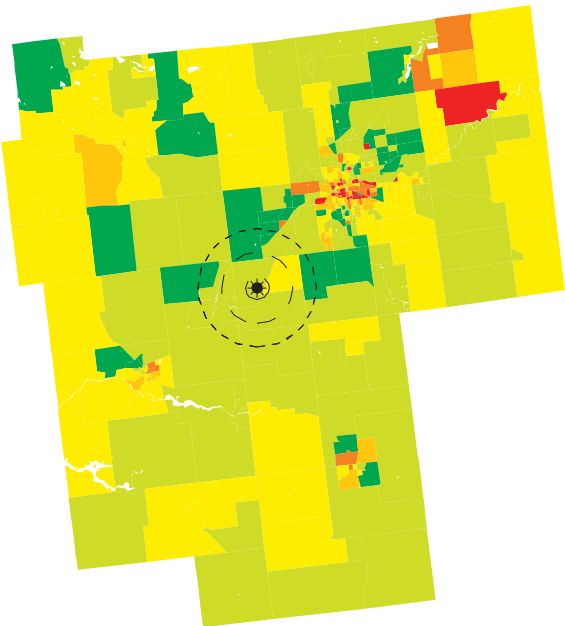
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



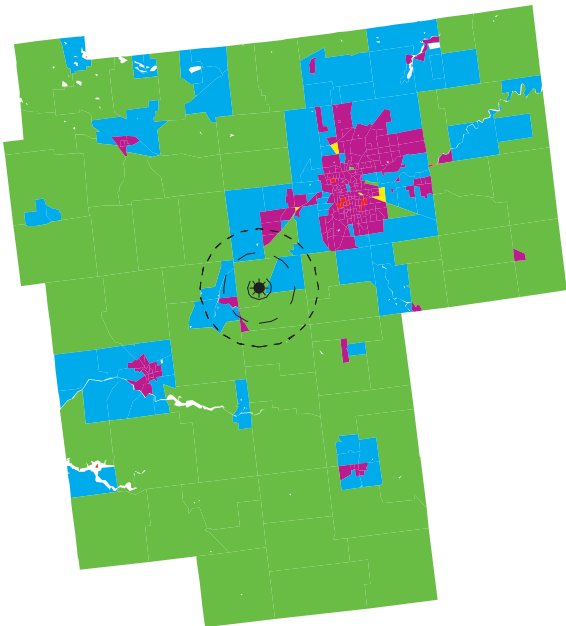
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population

